

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

December 2001

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The Mesonet Technicians completed the Fall Pass 2001 in late December. Over 1800 site photos were taken. We are preparing a CD that will contain all photos, accomplishments, site visitation forms and special findings. The CD will be available next month.

The Technicians also resolved 59 trouble tickets in December! In addition to the tickets shown in this report, their work included scheduled rotations of wind monitors and soil temperature sensors, as well as replacements of site batteries and rain gauge switches.

The monthly analysis identified the site with the maximum rainfall. Mt. Herman received 11.8 inches in December, with 7.8 inches falling in a single day (December 16)!

In late November, a widespread freezing rain event impacted southern and eastern Oklahoma. The wind data from 27 stations were deemed erroneous and appropriately flagged in the database.

Thanks to each of you for all your help as I transition into the QA Manager's position!

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: # 6259 RETR Frequent erratic dips in data Resolved: # 6260 PAUL Replaced sensor reaching 114% relative humidity
WDIR	Current: Resolved: # 6261 KENT Fixed wiring problem Resolved: # 6262 BOIS Fixed wiring problem Resolved: # 6263 GOOD Fixed wiring problem Resolved: # 6264 HOOK Fixed wiring problem Resolved: # 6265 BEAV Fixed wiring problem
WSPD	Current: Resolved:
PRES	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: Resolved: # 6192 COOK Replaced switch Resolved: # 6232 BEEX Removed spider webs that prevented tips from occurring Resolved: # 6266 TALI Removed spider webs that prevented tips from occurring

TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: Resolved: # 6230 APAC Replaced sensor with dips to -100 C Resolved: # 6254 RING Replaced suspect sensor
TB10	Current: Resolved:
TS05	Current: # 6304 WAUR Monthly QA indicates 3 C cool bias Resolved: # 6252 INOL Fixed wiring on sensor reporting -219.3 C Resolved: # 6282 RING Replaced suspect sensor
TB05	Current: Resolved: # 6268 ARDM Re-leveled surface to correct depth
TS30	Current: # 6305 MANG Monthly QA indicates 5 C cool bias Resolved: # 6283 RING Replaced suspect sensor

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: Resolved: # 6257 A163 Replaced switch on gauge that failed drip test Resolved: # 6270 A156 Removed webbing between funnel and buckets Resolved: # 6302 A154 Replaced switch on gauge that failed drip test
TS05	Current: Resolved:
TS10	Current: Resolved:

TS15	Current: Resolved: # 6258 A110 Replaced sensor damaged by rodent
TS30	Current: Resolved:

“Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were fixed during the entire month.

Variable	Description
TAIR	Air temperature measured at 1.5 meters
RELH	Relative humidity measured at 1.5 meters
WDIR	Wind direction measured at 10 meters
WSPD	Wind speed measured at 10 meters
PRES	Pressure
SRAD	Incident solar radiation
RAIN	Rainfall
TA9M	Air temperature measured at 9 meters
WS2M	Wind speed measured at 2 meters
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 cm under native sod